Notice of Allowability	Application No.	Applicant(s)	
	10/602,630	KIM, SEUNG-HOON	
	Examiner	Art Unit	
	VAN T. PHAM	2627	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *04/06/2006*.

2. ☒ The allowed claim(s) is/are *1-15*.

3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
   a) ☒ All b) ☐ Some* c) ☐ None of the:
      1. ☒ Certified copies of the priority documents have been received.
      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
   (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

WAYNE YOUNG
SUPERVISORY PATENT EXAMINER

Response to Arguments

1. Applicant's arguments, see Remarks, filed 04/06/2006, with respect to claims 1, 5 and 8 have been fully considered and are persuasive. The 35 U.S.C. 112, second paragraph rejection of claims 1-15 has been withdrawn.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 04/06/2006 is acknowledged.

Allowable Subject Matter

3. The following is an examiner's statement of reasons for allowance:

Ogasawara discloses an apparatus to detect a location of a pickup in an optical disc, comprising: a pickup reading or writing a signal from or to the optical disc (see Fig. 4, element 25); a spindle motor rotating the optical disc (see Fig. 4, element 22); and a controller determining whether the pickup is located in area of the optical disk, and measuring a rotational speed of the spindle motor to detect a current location of the pickup in the optical disc (see Fig.4, elements 18, 26 and col. 3, [0050]-[0051]). However, Ogasawara, does not disclose the pickup is determined to be located in an area of more than 90 minutes of the optical disc based on an absolute time-code in pre-groove (ATIP) information recorded on the optical disc, read by the pickup, and provided to the controller.

The admitted art, see Figs. 1-2 discloses an optical pickup is determined to be located in an area of more than 90 minutes of the optical disc based on ATIP information recorded on the optical disc (see the admitted art [0005]-[0006]).

Yeo et al. discloses an apparatus to detect a location of a pickup in an optical disc, comprising: a pickup reading or writing a signal from or to the optical disc (see Fig. 12); a

spindle motor rotating the optical disc (see Fig. 12); and a controller determining whether the pickup is located in area of the optical disk, and measuring a rotational speed of the spindle motor to detect a current location of the pickup in the optical disc (see Figs. 7, 17 and col. 13). However, Yeo, does not disclose the pickup is determined to be located in an area of more than 90 minutes of the optical disc based on an absolute time-code in pre-groove (ATIP) information recorded on the optical disc, read by the pickup, and provided to the controller but he does disclose the optical disk illustrated in Fig. 17 is a 74 minute CD-R disk.

Takeuchi et al. disclose an apparatus to detect a location of a pickup in an optical disc, comprising: a pickup reading or writing a signal from or to the optical disc (see Fig. 3); a spindle motor rotating the optical disc (see Fig. 3); and a controller determining whether the pickup is located in area of the optical disk, and measuring a rotational speed of the spindle motor to detect a current location of the pickup in the optical disc (see Fig.13, and col. 4).

None of the recite references disclose or suggest a controller determining whether the pickup is located in area of more than 90 minutes of the optical disk, and wherein the pickup is determined to be located in area more than 90 minutes of the optical disk based on an absolute time-code in pre-groove information recorded on the optical disk, read by the pickup, and provided to the controller.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Cited References

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The cited references relate to

a. An ATIP information format for a lead-in region of the CD-R/RW (Osakabe US 2002/0150394).

b. The method and apparatus for testing the quality of an optical disk medium moves an optical disk into a testing position (Yeo et al. US 6,058,086)

c. Control signals have been applied to the optical pickup to move the pickup to the desired location in the lead-in area of the disk (Jeong et al. US 2004/0001397).

d. Apparatus and method for determining area of optical disc (Lee et al. US 2004/0081430).

e. A location encoder for detection the location of the optical pickup (Ogasawara et al. US 2001/0009539).

5 Any inquiry concerning this communication or earlier communications from the examiner should be directed to VAN T. PHAM whose telephone number is 571-272-7590. The examiner can normally be reached on Monday- Thursday from 9:00am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on 571-272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

VP

WAYNE YOUNG
SUPERVISORY PATENT EXAMINER